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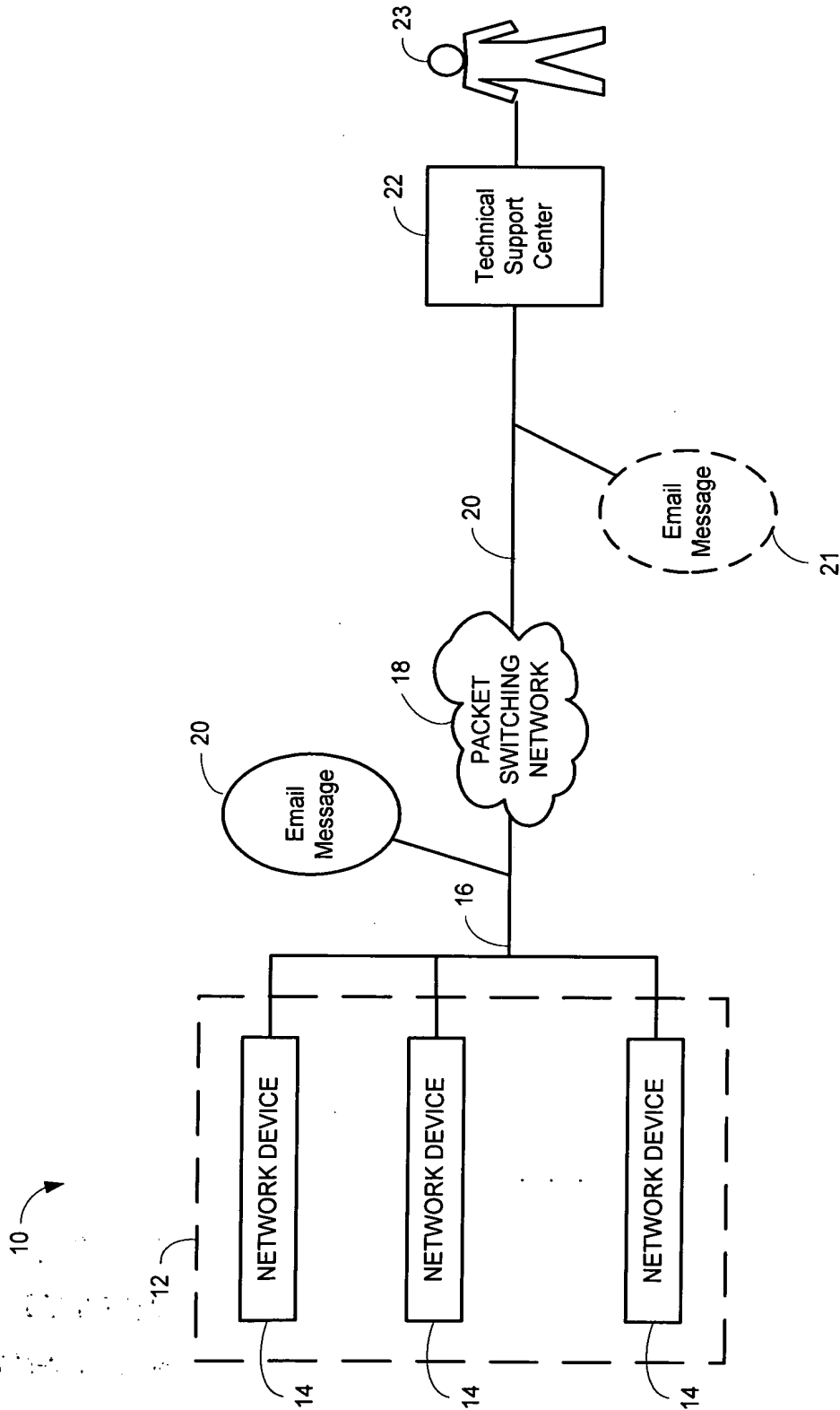


FIG. 1

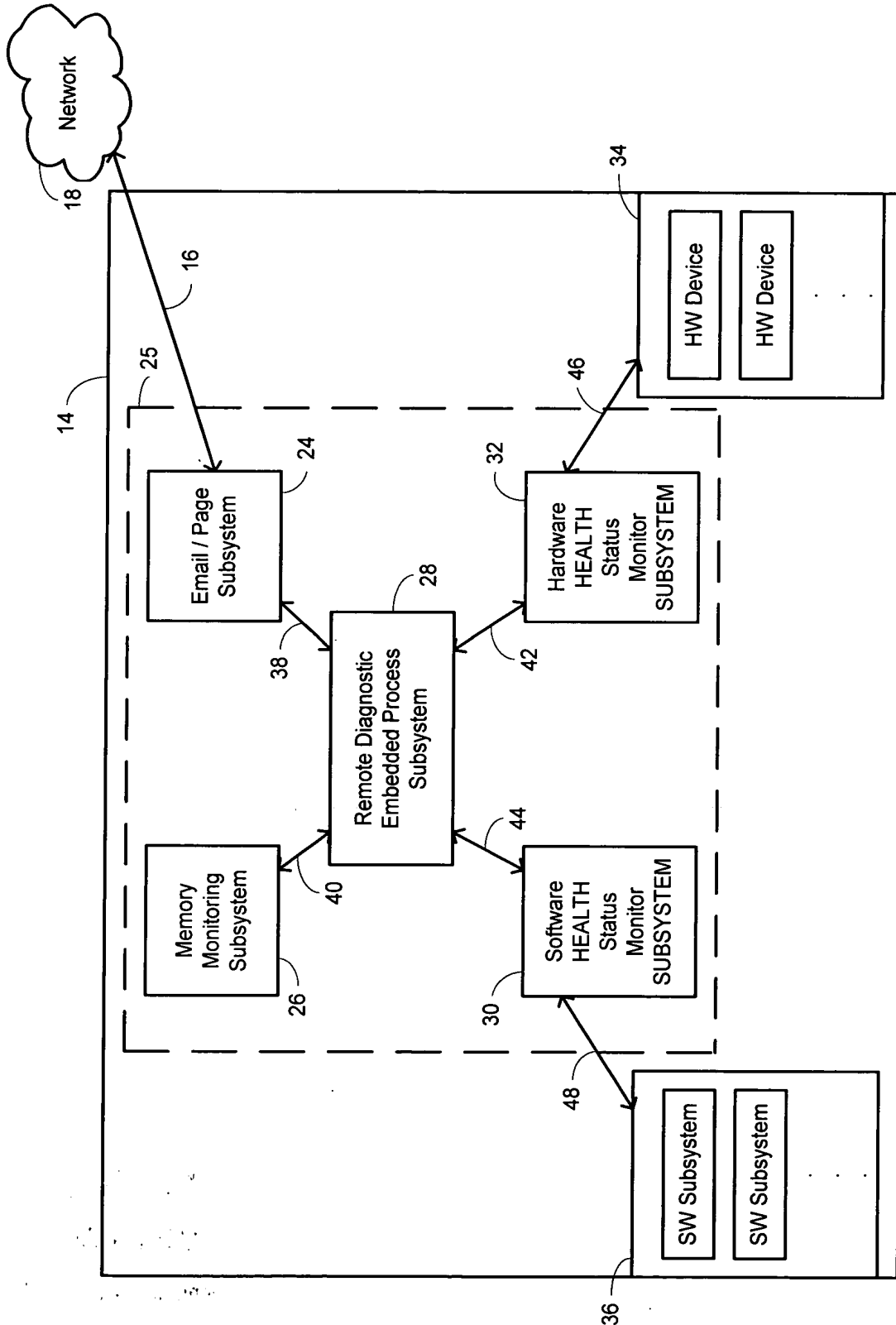


FIG. 2



# Central Process Software Architecture

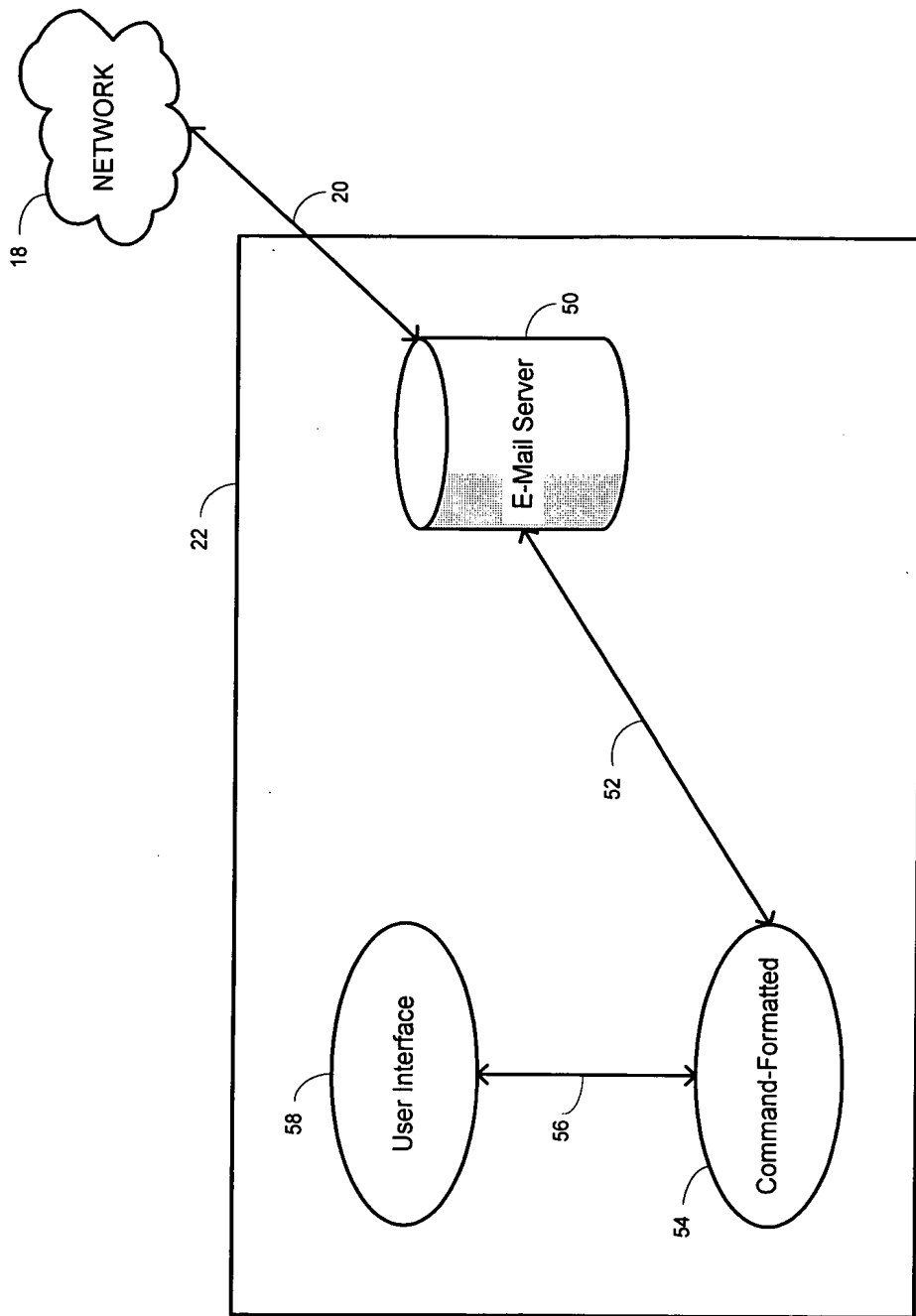
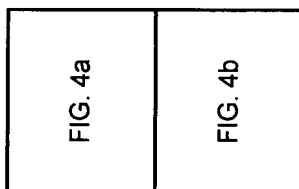


FIG. 3



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Key To

FIG. 4

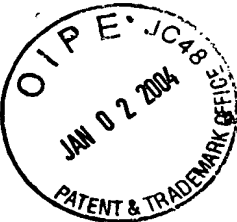
```
1 Bug CSCdp64343
2
3 rommon 7 > stack
4 Kernel Level Stack Trace:
5 Initial SP = 0x616cbd48, Initial PC = 0x602dce94, RA = 0x602c92e4
6 Frame 0 : FP= 0x616cbd48, PC= 0x602dce94, 0 bytes
7 Frame 1 : FP= 0x616cbd48, PC= 0x602c92e4, 24 bytes
8 Frame 2 : FP= 0x616cbf60, PC= 0x602d8fd8, 40 bytes
9 Frame 3 : FP= 0x616cbd88, PC= 0x602d91b8, 200 bytes
10 Frame 4 : FP= 0x616cbe50, PC= 0x602d87f8, 40 bytes
11 Frame 5 : FP= 0x616cbe78, PC= 0x602b88c0, 168 bytes
12 Frame 6 : FP= 0x616cbf20, PC= 0x602b5aec, 32 bytes
13 Frame 7 : FP= 0x616cbf40, PC= 0x602db848, 88 bytes
14 Process Level Stack Trace:
15 Initial SP = 0x630fac40, Initial PC = 0x603f6080, RA = 0x603f608c
16 Frame 0 : FP= 0x630fac40, PC= 0x603f6080, 56 bytes
17 Frame 1 : FP= 0x630fac78, PC= 0x603f608c, 72 bytes
18 Frame 2 : FP= 0x630fac00, PC= 0x602b39e4, 24 bytes
19 Frame 3 : FP= 0x630facd8, PC= 0x602b39d0, 24 bytes

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Added 000107 by hanif

61 t6 : 00000000 01000000 | s8 : 00000000 00000000
62 t7 : 01000100 0000000f | ra : 00000000 603f608c
63 HI : 00000000 00000000 | LO : 00000000 00000000
64 EPC : 00000000 603g6080 | ErrPC : 00000000 602dc060
65 Stat : 3400f03 | Cause : 01000010
66 Interrupt Control Register | Cause : 10001f82
67 rommon 9 >

68 hanif@life:NONE:symbols[84] rsym c5400-js-mz.symbols.Jan7
69 Reading c5400-js-mz.symbols.Jan7
70 c5400-js-mz.symbols.Jan7 read in
71 Enter hex value: 603f6080 603f6080 602B39E4 602B39D0
72 0x603f6080: cdp_cache_ager(0x603f602c)+0x54
73 0x603f608C: cdp_prot(0x603f03f4)+0x298
74 0x602B39E4:r4k_process_dispatch(0x602b39d0)x14
75 0x602B39D0:r4k_process_dispatch(0x602b39d0)+0x0
76 Enter hex value:
77 Enter hex value:
78 Enter hex value:
79 Enter hex value: 0x602dce94
```

FIG. 4a



|    |                            |            |          |       |            |
|----|----------------------------|------------|----------|-------|------------|
| 20 | rommon 8 > context         |            |          |       |            |
| 21 | Kernel Level Context:      |            |          |       |            |
| 22 | Reg                        | MSW        | LSW      | Reg   | MSW        |
| 23 |                            |            |          |       | LSW        |
| 24 | zero                       | : 00000000 | 00000000 | s0    | : 00000000 |
| 25 | AT                         | : 00000000 | 61730000 | s1    | : 00000000 |
| 26 | v0                         | : 00000000 | 0000000a | s2    | : 00000000 |
| 27 | v1                         | : 00000000 | 00000010 | s3    | : 00000000 |
| 28 | a0                         | : 00000000 | 0000002b | s4    | : 00000000 |
| 29 | a1                         | : 00000000 | 0000000a | s5    | : 00000000 |
| 30 | a2                         | : 00000000 | 00000010 | s6    | : 00000000 |
| 31 | a3                         | : 00000000 | 618dd470 | s7    | : 00000000 |
| 32 | t0                         | : 00000000 | 00000038 | t8    | : 00000000 |
| 33 | t1                         | : 00000000 | 34000001 | t9    | : 00000000 |
| 34 | t2                         | : 00000000 | 10001082 | k0    | : 00000000 |
| 35 | t3                         | : ffffff   | ffff00ff | k1    | : 00000000 |
| 36 | t4                         | : 00000000 | 00001000 | gp    | : 00000000 |
| 37 | t5                         | : 00000000 | 0000001c | sp    | : 00000000 |
| 38 | t6                         | : ffffff   | ffffc0ff | s8    | : 00000000 |
| 39 | t7                         | : 00000000 | 00000002 | ra    | : 00000000 |
| 40 | HI                         | : 00000000 | 00000006 | LO    | : 00000000 |
| 41 | EPC                        | : 00000000 | 602dce94 | ErrPC | : 00000000 |
| 42 | Stat                       | : 34000002 |          | Cause | : 01000020 |
| 43 | Interrupt Control Register |            |          |       | : 10001082 |
| 44 | Process Level Context:     |            |          |       |            |
| 45 | Reg                        | MSW        | LSW      | Reg   | MSW        |
| 46 |                            |            |          |       | LSW        |
| 47 | zero                       | : 00000000 | 00000000 | s0    | : 00000000 |
| 48 | AT                         | : 00000000 | 618e0000 | s1    | : 00000000 |
| 49 | v0                         | : 00000000 | 00000000 | s2    | : 00000000 |
| 50 | v1                         | : 00000000 | 0be6d67d | s3    | : 00000000 |
| 51 | a0                         | : 00000000 | 00000000 | s4    | : 00000000 |
| 52 | a1                         | : 00000000 | 01263690 | s5    | : 00000000 |
| 53 | a2                         | : 00000000 | 00000000 | s6    | : 00000000 |
| 54 | a3                         | : 00000000 | 00000000 | s7    | : 00000000 |
| 55 | t0                         | : 00000000 | 00000000 | t8    | : 00000000 |
| 56 | t1                         | : 00000000 | 00000003 | t9    | : 00000000 |
| 57 | t2                         | : 00000000 | 00000001 | k0    | : 00000000 |
| 58 | t3                         | : ffffff   | ffff00ff | k1    | : 00000000 |
| 59 | t4                         | : 00000000 | 00001f00 | gp    | : 00000000 |
| 60 | t5                         | : 00000000 | 0000f36d | sp    | : 00000000 |

60  
0d0d0d0d  
0d0d0d0d  
64bd06ec  
618e8b78  
618e8b78  
61250000  
618f0000  
618e8e20  
602d9ff4  
00000000  
30400c01  
01000000  
6173ecc0  
630fac40

FIG. 4b

80 0x602dce94 : emt\_call (0x602dce90) +0x4  
81 Enter hex value: 0x602dce94  
82 0x602dce94: emt\_call (0x602dce90) +0x4  
83 Enter hex value: 0x602c92e4  
84 0x602c92e4 : mon\_cpu\_exception(0x602c92c0)+0x24  
85 Enter hex value: 0x602d8fd8  
86 0x602d8fd8: r4k\_return\_to\_monitor\_direct(0x602d8f60)+0x78  
87 Enter hex value: 0x602d91b8  
88 0x602d91b8: r4k\_return\_to\_monitor(0x602d9010)+0x1a8  
89 Enter hex value: 0x602d87f8  
90 0x602d87f8:handle\_exception (0x602d84d0)+0x328  
91 Enter hex value: 0x602b68c0  
92 0x602b68c0: special\_default (0x602b66a4) +0x21c  
93 Enter hex value: 0x602b5aec  
94 0x602b5aec:r4k\_signal\_handler(0x602b59a8) + 0x144  
95 Enter hex value: 0x602db848  
96 0x602db848: r4k\_sig\_dispatch\_return(0x602db848) +0x0  
97 Enter hex value: 0x603f6080  
98 0x603f6080: cdp\_cache\_ager(0x603f602c) +0x54  
99 Enter hex value: 0x603f068c,  
100 0x603f068c: cdp\_prot (0x603f03f4) +0x298  
101 Enter hex value: 0x602b39e4  
102 0x602b39e4 : r4k\_process\_dispatch (0x602b39d0) +0x14  
103 Enter hex value: 0x602b39d0  
104 0x602b39d0 : r4k\_process\_dispatch (0x602b39d0) +0x0  
105 Enter hex value:

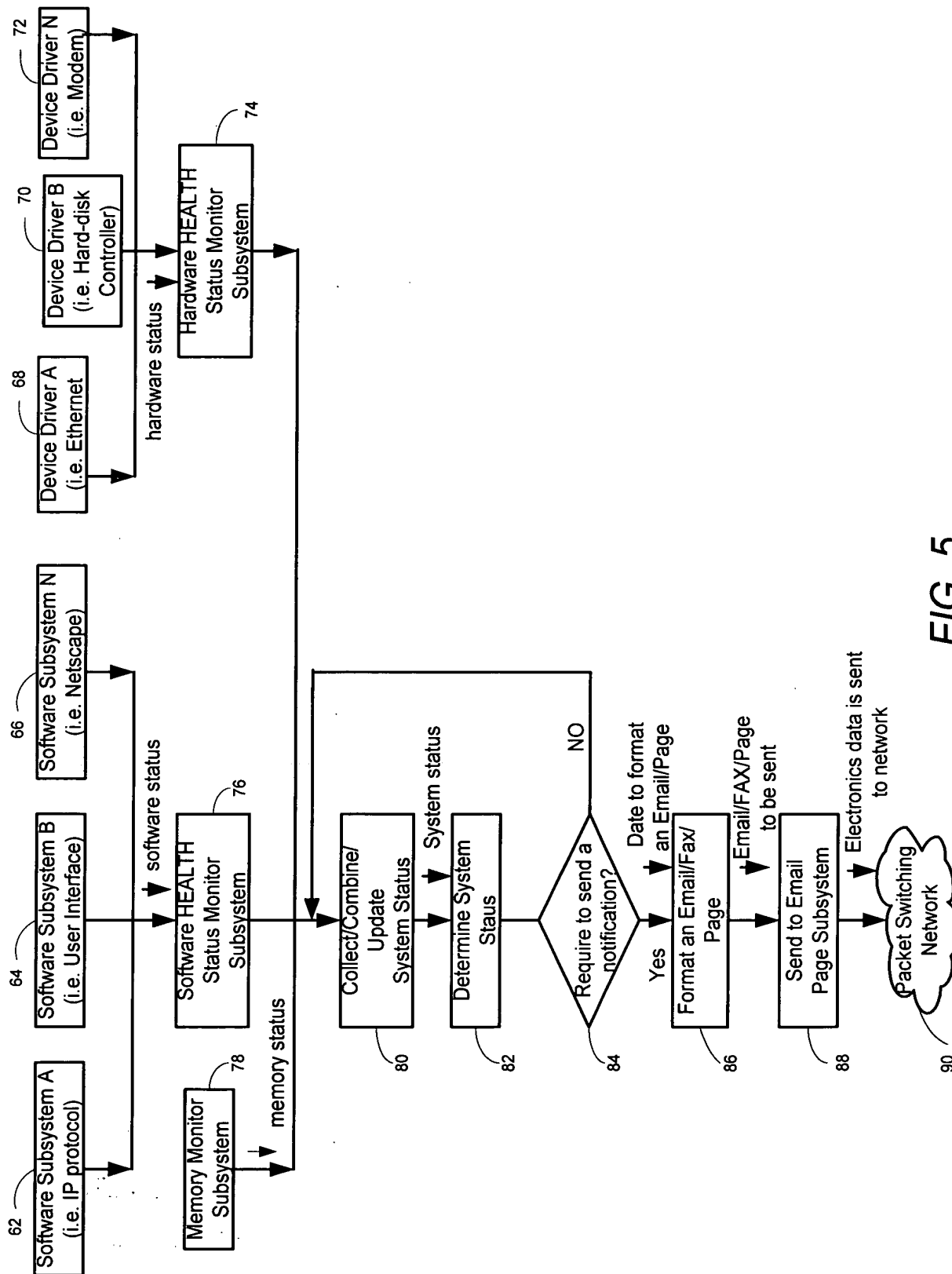


FIG. 5



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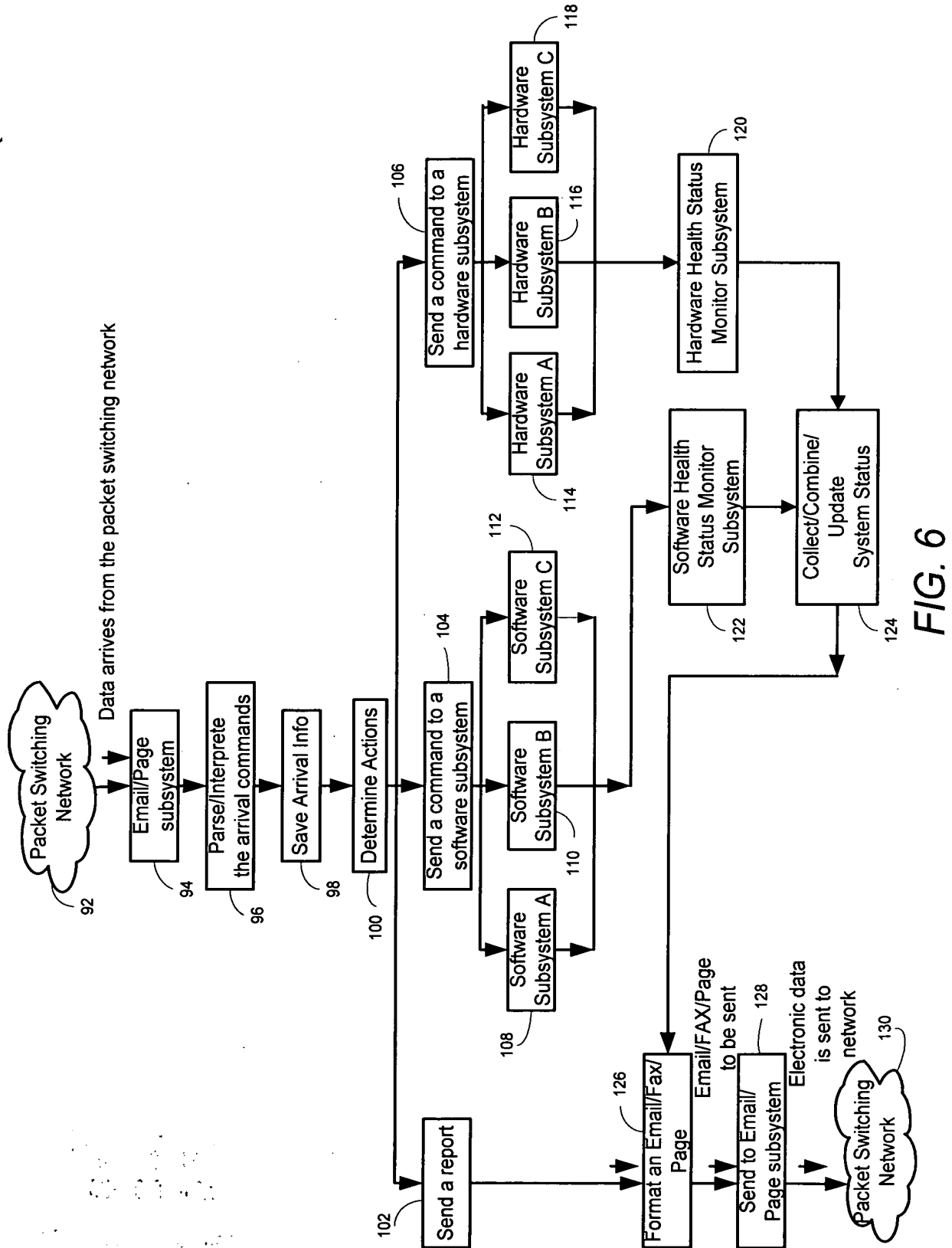


FIG. 6